201:26 S/109/60/005/012/024/035 E192/E582

9,4130 (3201,2804,1137,2801)

Leyteyzen, L G., Glukhovskoy, B.M. and Tarasova, Ye. I.

AUTHORS: TITLE:

Simultaneous Activation of Various Photocathodes and

Emitters in Photo-electron Multipliers

PERIODICAL: Radictekhnika i elektronika, 1960, Vol.5, No.12,

pp. 2038-2045

TEXT: A large number of photo-electron mutualizes was analysed and the characteristics of their photocathodes were investigated. The photomultipliers were of the standard industrial or laboratory type. First the spectral characteristics of a number of multistage photoelectron multipliers with bismuth-silver-cesium cathodes and antimony-cesium emitters, as well as Al-Mg alloy emitters were Some of these are shown in Fig.1, investigated experimentally. where the wavelength is shown on the abscissa in microns. spectral characteristics of the multipliers with oxide-silvercesium cathodes were also investigated and the results are given graphically. It is concluded that the shape of the characteristics of the tubes with antimony-cesium emitters is due to the strong adsorption of cesium by the emissive layer so that a film of free cesium is formed on the cathode which lowers its work function. Card 1/5

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Simultaneous Activation of Various Photocathodes and Emitters in Photo-electron Multipliers

The secondary emission coefficient of the photomultipliers was investigated at a fixed voltage and it was found that it varied considerably from sample to sample, depending on its processing conditions. The average efficiency characteristics of the secondary-emission surfaces were also investigated. The efficiency coefficient is defined as the average gain of the multiplier per stage; this was obtained by measuring a large number of samples and determining the voltage and sensitivity distribution for the cathodes (I.Ya.Breydo et al., Ref.1). In general, the distribution curves have the form of the normal Gaussian distribution. The average gain coefficients per stage for a number of standard multipliers produced in 1959 with various emitters were investigated by the above method and the results are given in a figure, while the details of the multipliers are shown in a table. The same figure shows also the gain of some of the American tubes (made by RCA). From the experimental data given in the figures it is seen that for the same interstage voltages the gain of the multipliers with antimony-cesium emitters is much higher than that of the tubes with Card 2/6

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Simultaneous Activation of Various Photocathedes and Emitters in Photo-electron Multipliers

alloy-type emitters; the highest gain is obtained in the multipliers with a lateral optical input. The efficiency of various multiplier systems is approximately identical but the coefficient of the secondary emission as a function of voltage differs considerably. The effect of the presence of alkali metals on the secondary emission coefficient of alloy-type emitters was also investigated. According to N. Schaetti (Ref. 3), M. Biermann and W. Kruger (Ref. 4) and Ye. G. Kormakova and V. G. Pavlovskaya (Ref. 5) the presence of cesium leads to an increase in the secondary emission coefficient o. This effect was investigated for the Al-Mg emitters for the multipliers provided with a heated cathode. The overall gain of the multipliers was measured during various processing stages and the The results of these measureaverage gain was then calculated. These show the gain per stage ments are given in Figs. 4 and 5. as a function of the interstage voltage, curves 1 and 2 in Fig. 4 illustrate the effect of thermal activation, curves I and 21 represent the processing with K-Na, while curves  $1^{\prime\prime}$  and  $2^{\prime\prime}$  illustrate the influence of Cs processing. Curves 1 2 and 3 in Fig. 5 show Card 3/6

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Simultaneous Activation of Various Photocathodes and Emitters in Photo-electron Multipliers

the gain after the thermal activation, while curves  $1^{\circ},2^{\circ}$  and  $3^{\circ}$ illustrate the effect of Cs processing; in both figures the same emitters made of Al-Mg alloy were used. The dark current of the multipliers, which determines their sensitivity, was also investigated. It was found that the spread of this parameter, at a given sensitivity, in the standard commercial tubes was very considerable (several orders) and was much higher than the spread of other parameters. It was found that oxide-resium cathodes give a constant thermal component of the dark current, which does not increase when the cathode is illuminated. On the other hand, an Sb-Cs cathode, operating with antimony-cesium emitters, has a very The multipliers with various other types of low thermal current, cathodes and with Al-Mg emitters give almost identical results as regards the thermal current, It is thought that the reason for the comparatively high dark currents in the multipliers with Sb-Cs cathodes and alloy-type emitters, as compared with other cathodes and emitters, is the luminescence of the alloy-type emitters.

Card 4/6

201,26 5/109/60/005/012/024/035 E192/E582 Simultaneous Activation of Various Photocathodes and Emitters in Photo-electron Multipliers There are 7 figures, 2 tables and 7 references: 3 Soviet and 4 non-Soviet. December 21, 1959 SUBMITTED: Fig.1 500 600 ; !! Рис. 1. Спектральные характеристики висмуто-серебряно-цезиевых катодов: I = 0 Sb — Св-выпттерами; z = 0 Al — Мд-Card 5/6

## "APPROVED FOR RELEASE: 09/24/2001

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AUPHORD:

), whose early is a  $\sum_{i=1}^{M} a_i a_i = a_i a_i$  because  $a_i = 1$ .

THISE

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alsoling thotomata have

PERIODICAL: Accoming made Sold. Towestiya. Seri, continues described by the Bor 11, 1900, 1500 a 1509

That: Some properties of the monocrystalline police, offence solicy lets of type 1 x -38 (240-30) and 1 -01 (28H-01) with . dar-reasspirent So-Na-K-Cs- photocomodes are assoribed. The authors seasintic todevelopment stage of these multipliers in 1961 and deries production is now being planned. The PaU-51 multiplier for light measurements has a rathode of 25 mm diameter and 11 multiplying caseades. The basket-shoped emitters were produced from the activated of 42 (3r8-2) helog and activated before the multiply) mg system was mounted. The alkaline metals were propared by heating tablets of the enropates of E. Ra. Caland of well jurified power derized titanium (reducing agent). The logarithms of the securivities and the dark ourrent increase almost linearly with the voltage. For FEU-58 this increase is ateaper than for FEU-51. PEU-55 and FEU-51 are sensitive Card 1/2

Property is of the photoelectronic...

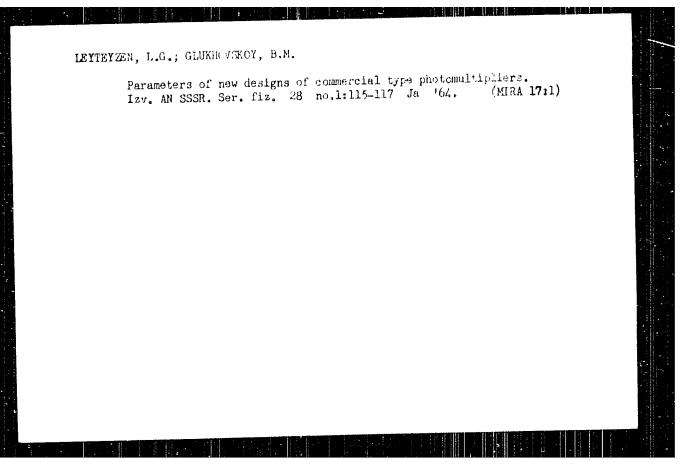
3,040/03/02/06/17/06/<mark>/02:</mark> 8121/310:

Ö

In the range 500 + 600  $\pi$  with a max win at 450 me. According to measurements by A. f., portbox of the institut contains empy . Colike-halvedneskoy biologic AN in a claratitute of madratica and Physicochemics Bablery AS WORR | the sident storage is but to section of and yet and yet the rich paragraph multiplier is ten times higger, and that of the everest is dip times higher than the ratio is the reference sample multiplieds which will, and The boat fallent muleighbors have enode menostavation of the colory a law! and a persitority throughly of personal lament la newson being with modulated limit longle the light threshold of the Passar collisions in more than turbe as good as that of four W . After a corenous observation the instability of most of the multirities remains below Life for girls tire. of the new maiting to remain the grant even after operation of it is 60 hours. The emitters, i. particular, show no fatigue. Col (thi crystaes is connection with Saleyd wive a light production that there has no many a maisipliance which not improvements professionates. A resolute to the public state admissed with New et del (Tip pryptels offers and to the state france.

Card 2/2

EWT(1)/EWT(m)/EPA(w)-2/EEC(b)-2/EWA(m)-2/EWA(lle L 25071-65 Peb IJP(c) S/0275/64/000/007/4034/403 ACCESSION NR: AR4045741 SOURCE: Ref. zh. Elektronika i yeye primeneniye. Svodny\*y tom, 7A 190 Albs. AUTHOR: Leyteyzen, L. G.; Glukhovskoy, B. M.; Berkovskiy, TITLE: Characteristics of new types of multistage multiplier phototunes intended for scintillation spectrometers CICED SOURCE: Sb. Stsintillyatory i stsintillyats. material; Khari kov. Khar'kovsk. un-t, 1963, 217-220 TOPIC TAGS: multiplier phototube / FEU-28, FEU-32, FBU-37, FBU-38, FEU-39, FEU-51 photomultipliers TRANSLATION: Fundamental parameters and characteristics are presented of these industrial multiplier phototubes developed in 1960 and dovering the 170-1,200 nm wavelength band: FEU-28, FEU-32, FEU-37, FEU-38, FEU-39, and FEU-51. Etbliography; 1 title. HNGL: 00 SUB CODE: EC Card 1/1



L 14373-65 ENT(1)/ENG(E)/EED(4)/EED(4)/EED(E)-AP/ENA(6) - HI-NECP-AR LIPP(6)/ AFMD(t)/RAEM(a)/ESD(gs)/ESD(t) AT 5/0048/44/028/009/1450/1453 ACCESSION NR: AP4045298 AUTHOR: Leyteyzen, L. G.; Glukhovskay, B. M.; Epliteyn, K. I. TITLE: Investigation of the sensitivity thresholds of photomultipliers of with different photocathodes for various spectral regions [Report, Tenth Conference on Cathode Blactronics held in Klav from 11 to 18 Nov 1963] SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 28, no. 9, 1964, 1450-1453 TOPIC TAGS: photomultiplier tube, photomultiplier characteristic, photocathode ABSTRACT: For a number of applications of photomultipliers it is essential to know the spectral sensitivity threshold and peak sensitivity region of the tubes. Adcordingly, the absolute values of the sensitivity threshold wavelengths of photomultipliers with 5b-Cs, Ag-O-Cs, B1-Ag-O-Cs, Sb-K-Na-Cs and Sb-K-Na photo athodes, which represent the five basic types of photocathodes, were determined. measurements were carried out on a special setup for this purpose, Cord 1/2

L 14373-65 ACCESSION NR: AP4045298

using interference light filters, for each of which the exact traismission curve was first obtained. The measurement results are presented in the form of curves characterizing the variation of the spectral sensitivity threshold with wavelength and the absolute spectral sensitivity with wavelength for each type of photocathods. The regions of peak spectral sensitivity do not telecide with the regions of optimum sensitivity. The characteristics of Ag-O-Cs photocathodes are distinctive. The test data should be nelpful in selecting photo-multipliers for specific applications. Orig. art. has: 1 formula and 3 figures.

ASSOCIATION: none

SUBMITTED: 00

SUB CODE: EC

NO REF SOV: 000

ENCL: 00

DTHER: 000

Card 2/2

KLYACHEC, A.L., inzh.; GLIMOV, M.I., inzh.; GLUMHCVUKIY, K.A., kana. tekhn. nauk, inzh., red.; GREDEV, A.A., retor tekhn. nauk, prof., red.; GREDEVIKE, B.V., kana. tekhn. nauk, red.; KOSTYUME VSKIY, M.G., kanat. tekhn. nauk, red.; KAYLOV, M.A. doktor tekhn. nauk, red.; KUREK, M.H., kanat. tekhn. nauk, red.; LEVINGRIY, L.G., inzh., red.; LOPANEV, N.D., inzh., red.; MONOZOV, A.P., inzh., red.; CNIASHVILI, C.D., diktor tekhn. nauk, prof., red.; GARRENEVSEIY, k.V., dektor tekhn. nauk, prof., red.; FILII, A.F., doktor tekhn. nauk, prof., red.; A.I., inzh., nauchn. red.

[Three-dimensional structural elements in the U.S.E.L.; materials of the All-Union Conference on irecast Heinforced Concrete Three-Dimensional Elements held in Hoverber 13-17, 1962 in Leninared) Frontranstvencye konstruktuii v SSSR; po materialam jervogo Vessiumnoso sovenchantia po obernym zhelezebeternym prostranstvennym kons ruktudiam, mostolavshegosia 13-17 nolabria 1962 g. v Leninarede. Leninared, Spraiddat, 1964. 461 p. (MIRA 17:11)

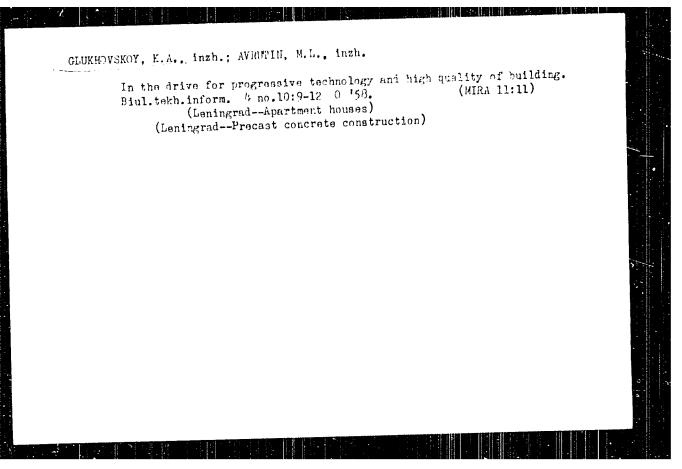
1. Nauchno-tekhnicheskoye obshchestvo stroitelinov iniustrii NSSA. Leningradskoye otaeleniye.

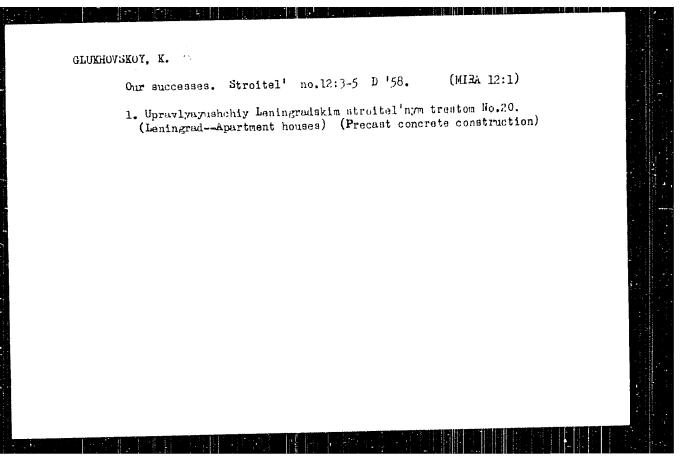
GLUKINOVSKOY, K.A., inch.; KROHROD, A.A., inch.; EMDIN, N.A., inch.

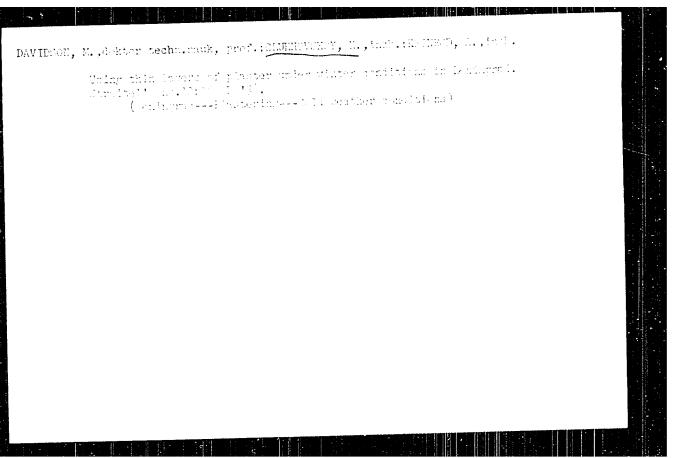
Using rammed concrete piles in making foundations for light
buildings and structures. Biul. tokhn.inform. b no.9:10-13
S 158.

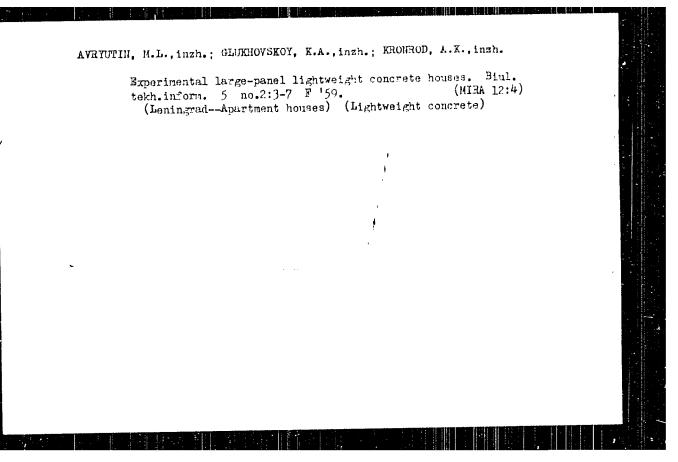
(MGFA 11:10)

(Foundations)







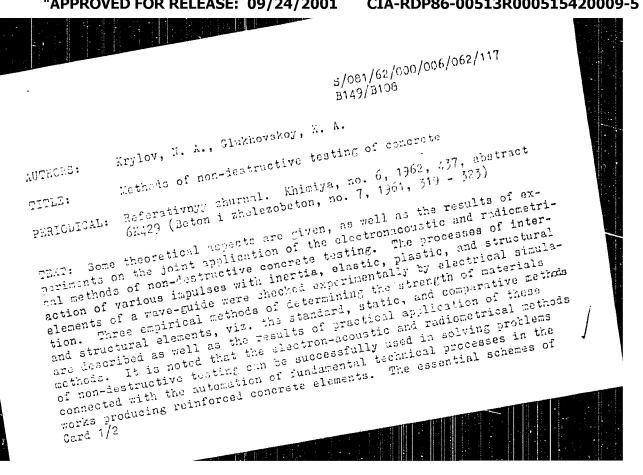


GLUKHCVSKOY, K., insh.; KRYLOV, N., kand.tekim.nauk, MALYEEZY, V., lean,

Acoustical and rediometric methods of inspecting the poslity of building materials and structural elaments. In struct. Eas,

no.11.16-18 N fol. (KIRA 1607)

(Heatline meterials—Testing)



### \$\\ \text{S/081/62/000/006/062/117} \\ \text{Methods of non-destructive ...} \\ \text{B149/B108} \end{align\*

automation are given for preparation of concrete mixtures with a constant water-to-cement ratio, compaction of concrete mixtures, prestressing of reinforcement, and treatment of materials in autoclaves. [Abstracter's note: Complete translation.]

Card 2/2

Mew thin-walled three-dimensional reinforced concrete elements in Leningrad. Bet. i zhel.-bet. nc.10:436-441 0 '61.

1. Zamestitel' nachal'nika Glavleningradstroya (for Glukhovskoy).

2. Machal'nik uchastka stroitel'stva obolochek Glavleningradstroya (for Endin).

(Leningrad--Roofs, Shell)

GLUKHOVSKOY, K.A.: KRYLOV, N.A.; KHONNED, A.A., inzh., nauchn. red.;

MARKUS. E.M., red.; KWZ'MINA, N.V., tekhn. red.

[Nondestructive methods of testing materials] Nerazrushaiushchie metody ispytaniia materialov; materialy k
Vserossiiskomu soveshchaniiu po prostranstvennym konstruktsiinam. Leningrad, Izd. ot-la tekhn.informatsii tessta "leningradorgstroi," 1962. 21 p. (MIRA 16:8)

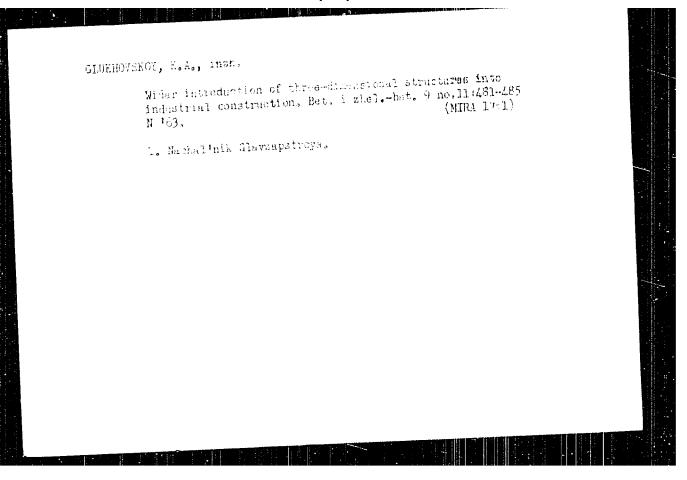
1. leningrad. Upravleniye po zhilishchnomu i graphdanskomu stroitel'stva.

(Nondestructive testing)

GLUCHOVSKOJ, K.A. [Glukhovskoy, K.A.], inz.

Prefabricated reinforced concrete roof structures for onestory industrial halls in the Soviet Union. Foz stavby 10
no.12:631-634 D '62.

1. Namestek reditele Leningradostroje, Leningrad.

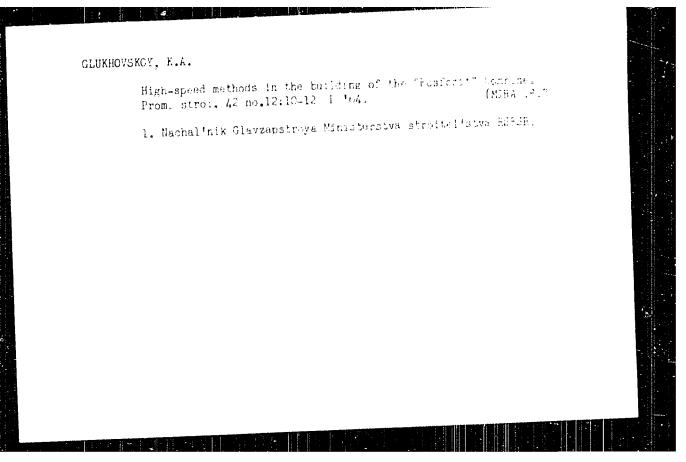


GLUKHOVSKOY K.A., inzh.

Mechanization of the construction of pile foundations for residential buildings in Leningrad. Nekh. stroi. 20 no.6:4-6 Je 163.

(MIRA 16:5)

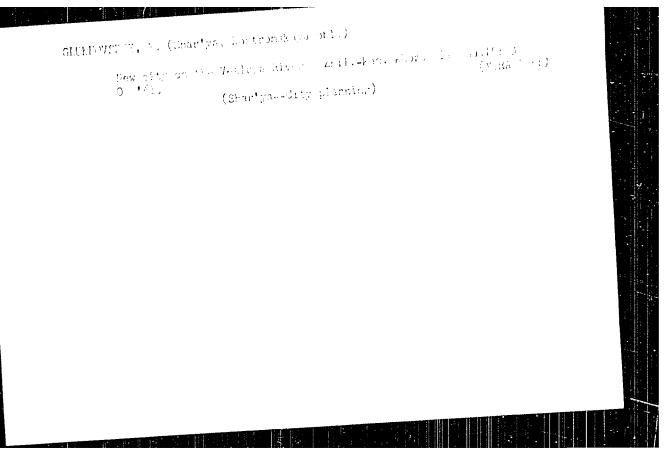
(Leningrad--Piling (Civil engineering)) (Leningrad-Foundations)

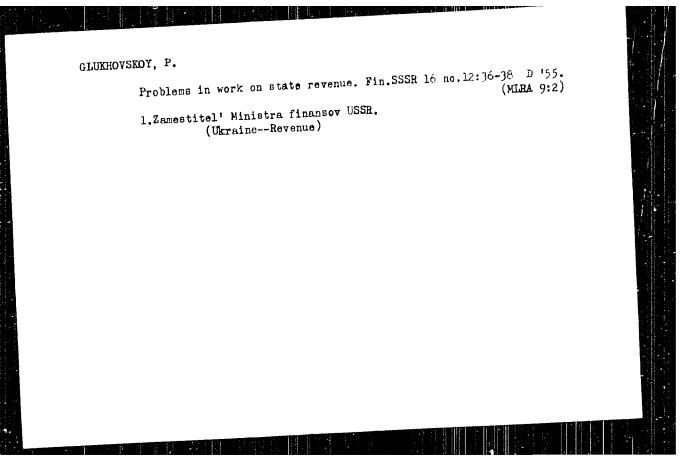


GLUKHOVSKOY, K.; EMDIN, N., inzh. [deceased]

The contributions of reinforced concrete shells to completely precast industrial consturction. Na stroi.Ros. 3 no.9:15-17 S '62. (MIRA 15:12)

l. Zamestitel' nachal'nika Glavnogo Leningradskogo upravleniya po zhilishchnomu i grazhdanskomu stroitel'stvu (for Glukhovskoy). (Roofs, Shell) (Industrial buildings)





## "APPROVED FOR RELEASE: 09/24/2001

#### CIA-RDP86-00513R000515420009-5

L 11456-65 EWT(m)/EWP(j)/T Pc-4 SSD/AFWL/ASD(m)-3/AS(mp)-2/AFETR/RAEM(1)/ACCESSION NR: AP4047673 ESD(gs/ESD(t) RM6/0303/64/000/005/0008/0009

AUTHOR: Yukel'son, I. I., Glukhovskoy, V. S.

13

TITLE: Chemically stable coatings based on polyarylene alkyls

SOURCE: Lakokrasochny\*ye materialy\* i ikh primeneniye, no. 5, 1964, 8-9

TOPIC TAGS: polyarylene alkyl, lacquer, cross-linked polymer, sulfurated polymer, thermosetting polymer, paramagnetic resonance, infrared absorption spectrum

ABSTRACT: The author investigated the feaction products of polyarylene alkyls with sulfur, forming thermosetting materials. Polyathyl-phenylene-ethyl (d = 1.0006, average mol. weight = 1200) was used as a carbon-chain saturated polymer of the fatty aromatic series and sulfur was the cross-linking agent. The mechanism of cross-linking of polyethyl-phenylene-ethyl by sulfur is distrussed and interpreted by chemical equations. Paramagnetic resonance analysis and infrared absorption spectra of the cross-linked product showed that during the reaction the macromolecule increases in size and bonds are formed between the chains. The sulfur bridges and C-C bends are formed preferably between the alkyl parts of the macromolecules. The resulting cross-linked polyethyl-

L 14456-65 ACCESSION NR: AP4047673

phenylene-ethyl is a thermosetting product. The specific viscosity of the initial polymer was 0.0680, that of the cross-linked polymer increased to 0.3614, and the amount of bound sulfur was 5.2%. The lacquer obtained from this polymer contained 100 g of cross-linked polyethyl-phenylene-ethyl, 15 g of plasticizer (dibutyl phthalate) and 240 g of solvent (xylene). It was found that the coating based on this polymer has a high resistance to acids, alkalies, atmospheric oxygen and heat at temperatures above 250G. Samples coated with this lacquer kept for 2 months in concentrated HCl and HNO3, 50% H<sub>2</sub>SO<sub>4</sub> and alkali. After drying at 120C for 1 hour, then at 210C for 20 minutes, the films had an attractive gloss, and good strength, elasticity and dielectric properties. Orig. art. has: 15 chemical formulas.

ASSOCIATION: None

SUBMITTED: 00

ENGL: 00

SUB COOR: OC, Mr

NO REF SOV: 003

OTHER: 000

Card 2/2

## "APPROVED FOR RELEASE: 09/24/2001

#### CIA-RDP86-00513R000515420009-5

L 54961-65 EWT(m)/EPF(c)/EWP(1)/T Pc-4/Pr-4 RM ACCESSION NR: AP5014165 UR/0080/65/038/005/1169/1169 541.6'65 AUTHOR: Yukel'son, I. I.; Kozyreva, Ye. F.; Garmonov, V. I. Blukhovskoy, V. TITLE: Synthesis and optical properties of polyethylphenylenethyl SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 5, 1965, 1165-116 TOPIC TAGS: polycondensation, dichloroethane, polyethylene, polyethylphenylenethyl ABSTRACT: Polyethylphenylenethyl was prepared by polycondensation of 1.2-dichloro ethane with ethylbenzene under conditions typical for Friedel trufts reactions. At constant conditions an increase in the catalyst (AlCL3) concentration up to a certain level is reflected in an increased molecular weight of the modurit polymer. The average molecular weight of the polymer increases also with a deciriose of the molar ratio of ethylbenzene to dichlordethane. In the case of excess of ethylbenzene the polycondensation reaction is linear and the polymer structure is C<sub>2</sub>H<sub>1</sub> C.H. C2Hg Card 1/2

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_ L 54961-65						-
ACCESSION NR: AP5014165				/		
Maximum of the average m of ethylbenzene to dichl extensive cross-linking dichloroethane from 1:1 and insoluble in hydrocar photoelectric spectra of The oscillatory character explained in terms of the phenylenethyl. Orig. ar ASSOCIATION: Voronezhsk Technology)	oroethane. The ewithin the polyme to 0.7:1 the polyrbons, alcohols, polyethylphenyler of the maxima de large number of t. has: 2 tables	ethyl group in er. At molar ymer is highl ketones, and enethyl are to f bands for methyl and s, 3 figures,	ratios of ethy ratios of eth recoss-littled chlorourganic pical for braithe n→π electro thyi groups in and 3 formulas	zens hinders ylbsizene to , rubber-like scivents. T nched polymer on transition n polyethyl-	he	
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NO REF SOV: 004	ОТН	ER: 000				
Card 2/2				三計 抽用 解實質		
Card 2/2						

1 0V (164-18-1-17/54 Yelvatin, V. P., Favior, fa. A., Gluknovisev, B. V. SUTHORI: The Interection Between Nicket-Vanatium Alloys and Refrac-TITLE: tories (Vzaimodeyerviye nikelevanadiyevykn splavov s ogneuporami) Nauennyme dokiady vyseney ahkoly. Metalimpaiva, 1908. Nr 1. PERIODICAL: up 87-92 (USMB) The present investigation was carried out to improve the tech-ABSTRACT: nology of high-temperature allove, especially is regard to Taremoval of inclusions of non-metals or gases in alloys. Nickel-vanadium alleys were used as initial materials the neit of which was produced at 1 800 - 1 900 . The test of trenickel-vanadium aliens was carried out in erocibles of MgC. BeO. Ero, with different duration of storing. The analysis shoved that the alloys were rich in gasts such as 0,072 -0.092% 0, and 0.01 - 0.09% N. It was found that the high gas content of the alloys is caused by inclusion of the initia. materials, especially the aluminum thermic vanedium. Card 1/4

177 1161 - 1 Hat - 177 31 The Interaction Between Nickel-Vanadium Alloys and Refractories To retermine the surrable refractory for the marker-variadism alloys the interaction between the alloy, and in refractory was investigated. Venadium is a comparatively active metal in the most and reacts energetically with the refractories of the orneible, brinking impurities into the noted melts. In the reactions mainly VO reads. in the interiorian between VO and the exides of refractories also VD, is formed. The lower starbarity of  $2 \, \mathrm{reg}_{\mathrm{p}}$  as compared to variation melts is probably a consequence of the reaction 20mG, - V # 0r.O. By means of radioactive indicators the character as the intit. action between the refrictory and the lightd metal alley fift a variedium content of  $f(\mathcal{P}^1)$  and determined. If  $e_{ij}$  was then is the fractory to which the radioactive isotipe  $\mathbf{Zr}^{-\frac{95}{3}}$  was added. The investigations chowed that non-metallic impurities can be avoided only if the melt is not overheated and is left in the state of melting for as short a period as possible. The reaction products core inventigate; also by means of x ray fard 3 4 structural analysis to explain the character of the interact

50V/163=8=1=17773 The Interaction Between Nickel-Vanadium Alloys and Refractories

tion between the refractory and the liquid nick ()-vanadium alloys. This analysis showed that in the interaction correction the alloys and the refractory  ${\rm ZrO}_2$  is reduced to  ${\rm Zr}$ .

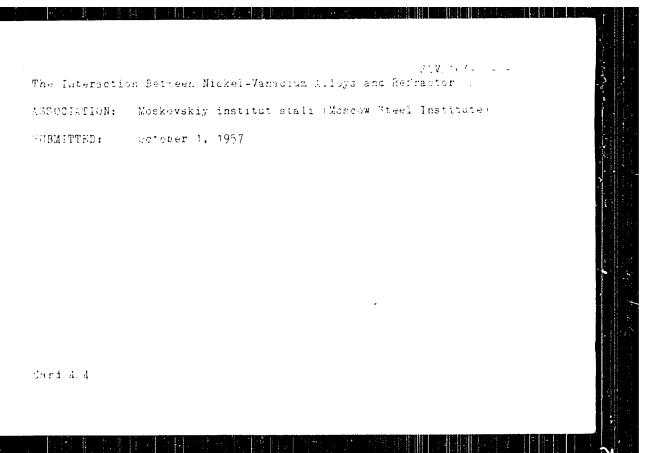
The character of the interaction between the alloys and the refractories of beryllium oxide was not explained by the x-ray structural analysis. Probably only little variation oxide is formed in the interaction; this variation exide dissolves in the melt. Beryllium vapor is formed which allowers solves in the metal melt.

Experiments on the interaction of mickel-variadium alogs and  ${\rm Al}_2{\rm C}_x$  were also carried out.

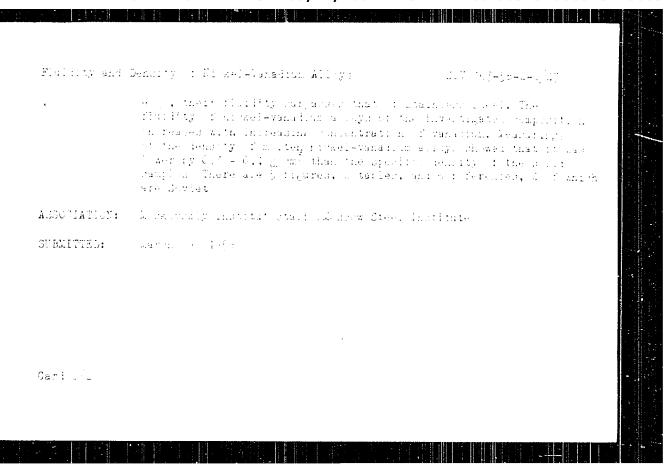
The macro- and microscopic investigation of the surface of zirconium bricks showed that in the melting in zirconium crucibles in the care at a longer period of storage the metament penetrated the NrC. In melting benyllism into a man a

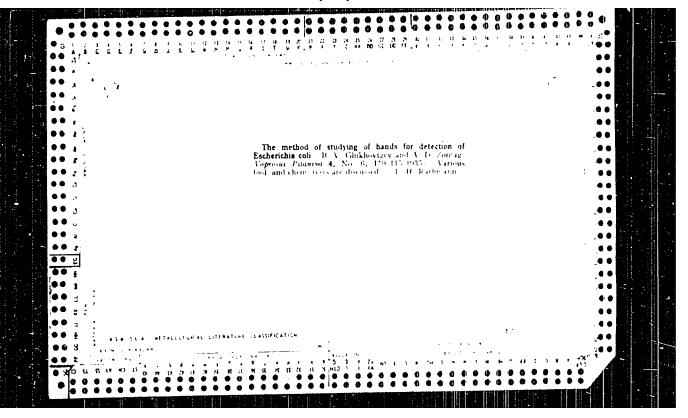
exide in crucibles the interaction between the (iq. 1 m. 4) and the retractory is much smaller. There are 1 figure and 1 reference,

Card 3 4



15/37 'AUTHORU: leighting for , ravies , line. Normatiev B.V. - d 1,7165-58-4-6/47 TITLE: Finishity and Lengity of Dissel-Vanadaus Asloys (In the teachest's pirthout's playor himselys s vansilyen; i ERIC DI TALE Nancharype 4 klasy systmey samely, a stallargiya, 1998, Nr 4, gg 12 - 16 - 033R) ABSTRACT: In rier to letermine the clurifity of mickel-vanadium #110ys of # e intent of u5, 50, and 55 % or variation, the method of youring the alloys anto molds of the Roff-type was masen. By this method, the tests can be carried out in vacuum or in a neutral atmosphere. The metal was melted in cruciblys of peryllium-chide with argon in a Migh-temperature resistance formace with a graphitic carbon heater. A special furnate structure as shown here allowed the metal to be proced into oracicles without disturbing the tightness of the forhave. The experimental method of delputin and Laurakh (Ref 6) was tmpl gol to letermine the specific gravity of the smelt. This formercy used method is rather completed reliance. - By investigating the floralty of the normal alloys of a variation content of 45, 30, and 75 % It was found that these alloys showed a rather good fluidity; Carl I.





USSR Microbiology, Medical and Veterinary

F -6

Microbiology.

Abs Jour: Referat. Zh.-Biol., No. 9, 1957, 35793

Author : Glukhovtsev, B,V.

Title : Yeast-like Fungi and Their Role in the Spread of

Some Bacterial Infections

Orig Pub: V sb.: Eksperim. i klinich. issledovaniia II, L, Medgiz, 1956, 332-333

Abstract: No abstract.

Card 1/1

..?

USSR Microbiology. Medical and Veterinary
Microbiology.

Abs Jour: Referat. Th.-Biol., No. 9, 1057, 35785

Author: Glukhovtsev, B.V.; Kurushina, T.M.; Maslova, G.V.

Title: Characteristics of the Yeast Flora in Various
Skin Infections

Orig Pub: V. sb: Eksperim. 1 klinich. issledovanila II, L,
Medgiz, 1956, 335-336

Abstract: 6232 examinations of persons sick with various
forms of skin diseases were conducted. In 306

Abstract: 6232 examinations of persons sick with various forms of skin diseases were conducted. In 306 cases various yeasts, primarily C.albicans (118 cases), and other representatives of the genus Candida (76 cases) were isolated. In 19% of the positive cases fungi of the specie Trichosporon were isolated. A supposition is expressed about the identity of Trichosporon and Geotrichoides.

Card 1/1

F -- 6

USSR /Microbiology. Medical and Veterinary

Microbiology.

Abs Jour: Referat. Zh.-Biol., No. 9, 1957, 35790

Author : Glukhovtsev, B.V.

Title : The Transmission of the Yeastlike Fungi of the

Genus Candida

Orig Pub: V sb.: Eksperim. i klinich. issledovaniia II, L,

Medgiz, 1956, 339-340

Abstract: In experimentally infected guinea pigs and rab-

bits, yeast-like fungi were isolated from the internal organs of outwardly healthy animals. Mycosis-bearing was studied in people. Representatives of the Genus Candida were isolated from the mouth cavity in 32.5% of the examined school children, from the genitalia of 28% of the women,

from the organs of persons who had died from

Card 1/2

USSR Microbiology, Medical and Veterinary

F + 67

Microbiology.

Abs Jour: Referat. Zh.-Biol., No. 9, 1957, 35790

tubesculesis (in 40% with the hematogenic-disseminating form and 53% in the fibre-cavernous form), in the saliva of persons sick with tuber-culosis, and in the contents of the stomach, taken on an empty stomach from persons sick with stomach-intestinal diseases.

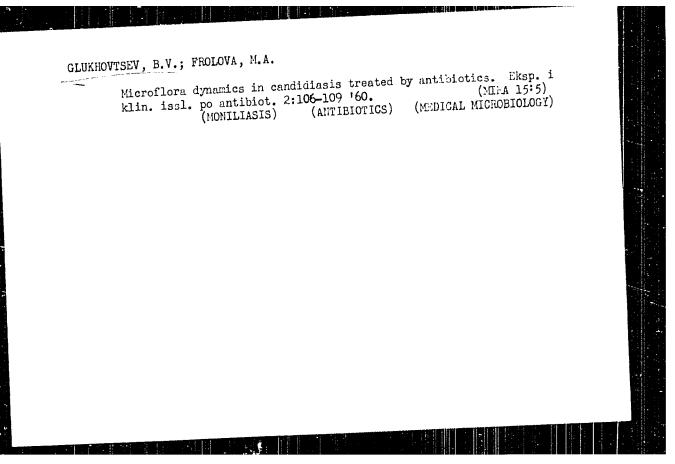
Card 2/2

KASHKIN, P.B., GLUEHOVESSV, B.V., KONDRATTYSVI, A.A., MERCHENEVA, P.G.,

Some indications of authoniticity of the condicial nature of combinations in autibiotic therapy. Antibiotiki, 3 no.3:118-122 Ny-Je 158 (MIRA 11:7)

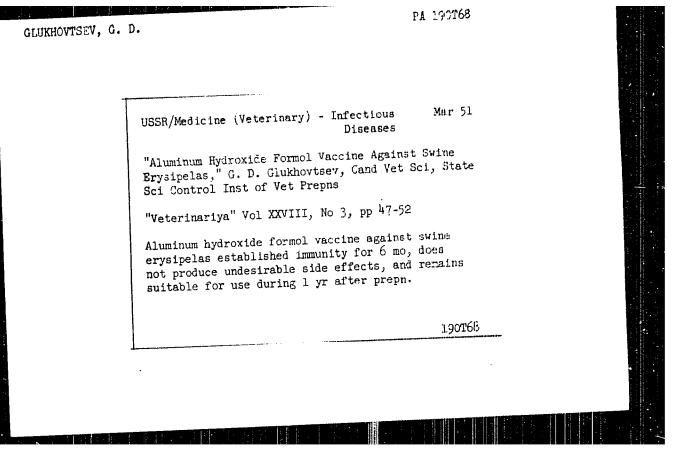
1. Leningradskiy neuchno-isoledovetel'skiy institut antibiotikov. (MONILIASIS, etio., & nathogan. antibiotic there, verification (Rus))

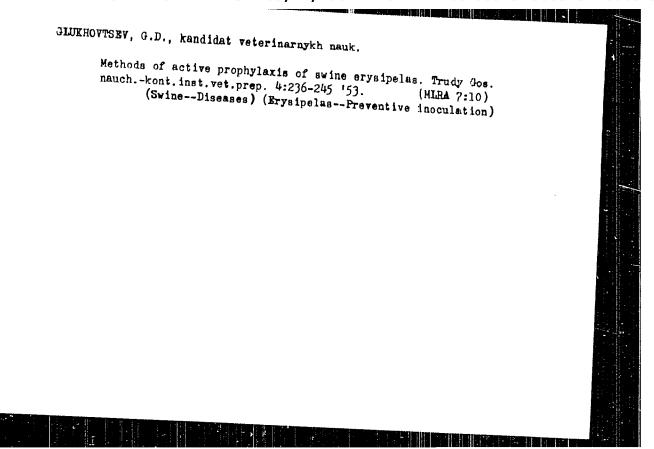
(ANTIBIOZICS, inj. effects, moniliasis, verification (Rus))



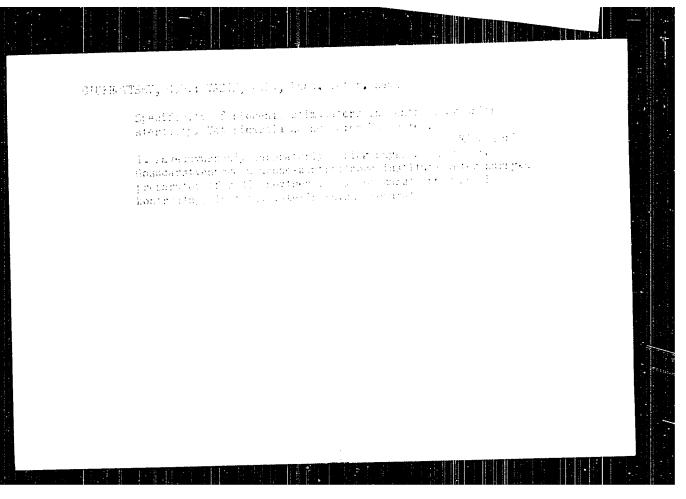
### "APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420009-5





USSR / Microbiology. Microbes, Pathogenie to Man and Animals. General Problems. : Ref Zhur - Biologiya, No 5, 1959, No. 19537 Abs Jour : Glukhovtsev, G. D. : State Scientific-Control Institute of Author Veterinary Preparations Inst : Serological Standardization of Erysipelas Title Strains in Swine : Tr. Gos. nauchno-kontrol'n. in-ta vet. preparatov, 1957, 7, 230-236 Orig Pub : To select immunogenic strains, the author applied the hemagglutination reaction (HAR). Abstract It was demonstrated that strains, producing HAR in dilutions of 1: 32, 1:64 and higher, possess immunogenic properties. Standard agglutinating sera were obtained by Card 1/2



GLUKHOVTSEV, L.V.; ZAKHAROVA, S.V.

Preparation of furan dialdehydes. Izv.AN SSSR.Ser.khim. ro.2:
390-391 F '64. (MIRA 17:3)

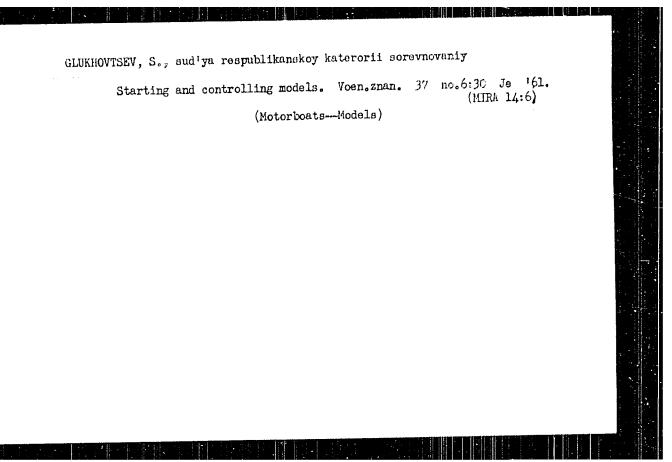
1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

GLUKHOVTSEV. S.; ZAKHAROV, S., inzh.

Homemade flotilla. Tekh.mol. 28 no.10:16 '60. (MIRA 13:10)

1. Nachal'nik TSentral'noy morskoy model'noy laboratorii Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu (for Glukhovtsev).

(Ship models)

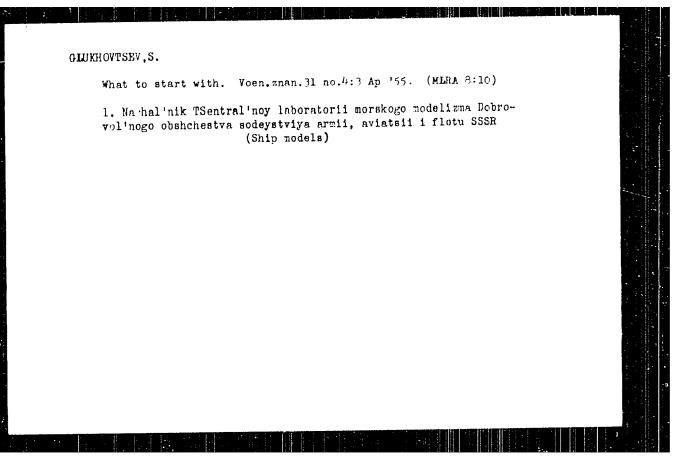


GLUKHOVTSEV, S.A.; DERBEDENEV, G.A., redaktor; MUNTYAN, T.P., tekhnicheskiyredaktor

[The seaworthiness of a ship; aids for student organizations, All-Union Volunteer Society for Assistance to the Army, Air Force, and Navy groups and builders of ship models] Morekhodneys kachestva korablia; posobie dlia uchebnykh organizatsee, kruzhkov Dosaaf i morskikh modelistov. Moskva, Izd-vo Dosaaf, 1954. 26 p. (MLRA 8:5) (Ship models)

GLUKHOVTSEV, S.A. Norekhodnyye Kachestva Koraclya. Posociye dlya uchec. organizatsiy, kruzhkov DUSAAF i morskikh modelistov. N., Izd-vo DUSAAF. 1954. 28s. s ill; ll. chert. 20sm 5,000ekz. lr. 15k.-(54-57997) P 629.12 (086.5) 629.12.07

SO: Knizhnaya Letopis', Vol. 3, 1955



GLUKHOVTSEV,S., chlen zhyuri konkursa.

Competition for the best motors for ship models. Vcen.znan.31
no.?:11 .fl'55. (MLNA 8:12)

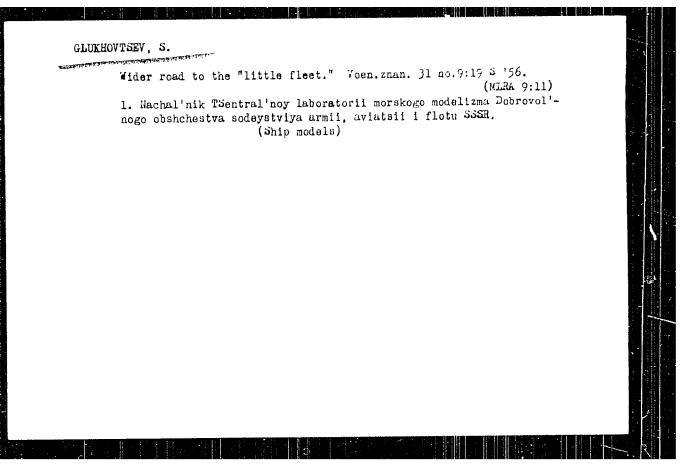
(Marine engines--Models)

GLUKHOVTSEV, S.

Advices to builders of ship models. Voen.znan. 31 [i.e. 32] no.4:
25 Ap '56.

1. Machal'nik TSentral'noy laboratorii morskogo modelizma Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu SSSR.

(Ship models)



GLUNIUM A. IGOSHIN. H., redaktor; MUNTYAN, T.P., tekhnicheekiy redaktor

[Seagoing properties of vessels; handbook for educational organizations of associations of the All-Union Volunteer Society for Assistance to the Army, Air Force, and Nevy and for naval modelmakers]

Morekhodnye kachestva korablia; posoble dlia uchabnykh organizatsii, kruzhkov Domas i morskikh modelistov. Moskva, Iza-vo DOSAS. 1957.

28 p. (Kira 10:10)

(Shipa--Models)

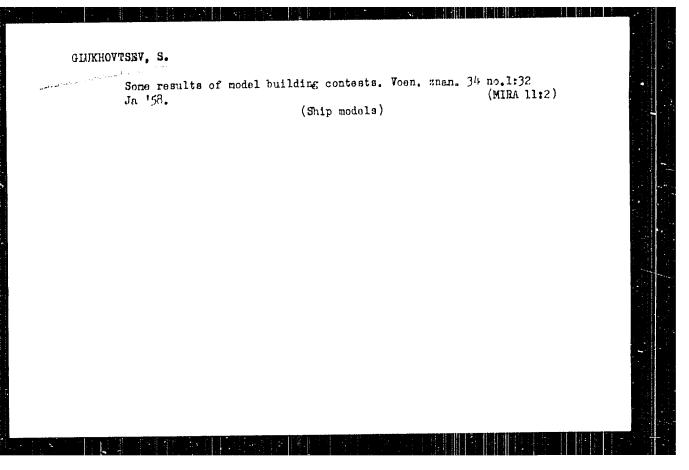
GLUKHOVTSEV, S.

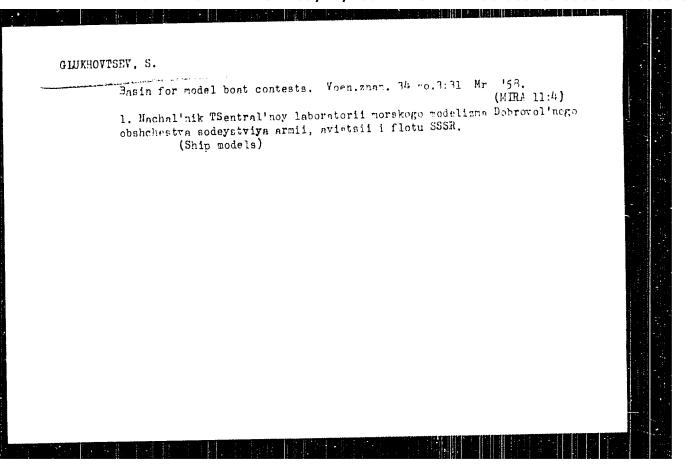
New competitionrules for model ship builders. Voen. 2nan. 33 nc.3:31

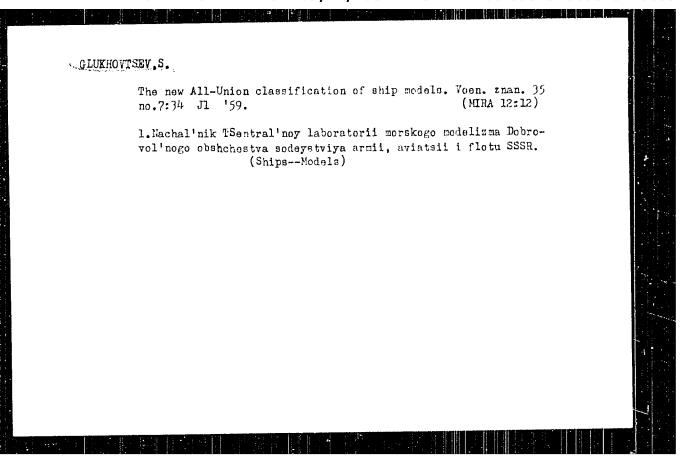
Mr '57.

1. Nachal'nik TSentral'noy laboratorii morskogo modelizma Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu SSSR.

(Ship models)



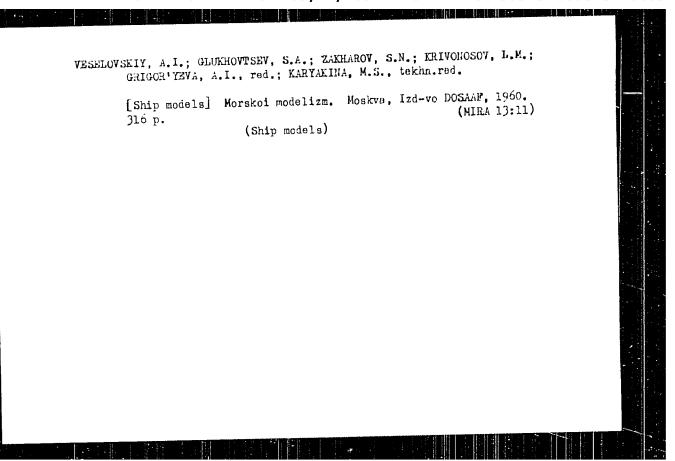




GLUXHOVTSEV, S., audiva respublikanskey kategorii, Flavnyy sediya vsesoyuznykh sorevnovaniy.

Contests among "model fleet" builders. Voen. zman. 35 no.10:36-37 (PRA 12:12)

(Ships--Models)



GLUKHOVTSEV, S.

Controlling a yacht model by radio. Voen. znan. 36 no.1:35 Ja '60. (MIRA 12:12)

1.Machal'nik TSentral'noy laboratorii morekogo modelizma Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu SSSR.

(Yachts and yachting--Models)

Reaction of unasturisted allicabitation assists district district

GLURHOUTSEU, V.G.

USSR/Chemistry - Synthesis

Card 1/1

Pub. 40 - 26/27

Authors

Petrov, A. D.; Mironov, V. F.; and Glukhovtsev, V. G.

Title

The synthesis of diallyl silanes

Periodical :

Izv. Ad SSSR. Otd. khim. nauk 6, 1123-1124, Nov-Dec 1954

Abstract

Data are presented regarding the synthesis of four new diallyl silanes including three with aryl radicals. The chemical characteristics of a hitherto unknown alpha-naphthylmethyldichlorosilane are described. Five

references: 4 USSR and 1 USA (1949-1954). Table.

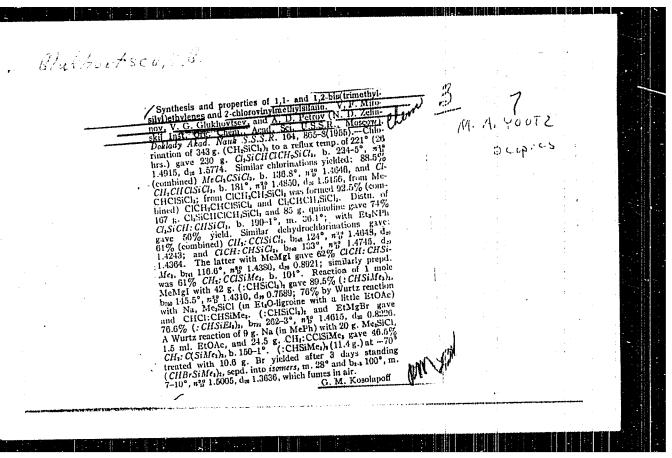
Institution :

Acad. of Sc., USSR, The N. D. Zelinskiy Institute of Organ. Chemistry

Submitted

: July 12, 1954

CIA-RDP86-00513R000515420009-5" APPROVED FOR RELEASE: 09/24/2001



DITERRITOR, V. 1. -- "The synthesis and Properties of Unsaturated Silvnes and disilance." Academy of Science Class Institute of Organic Sciences immin D. Delissiy, Roscow, 1-50. (Dissertation for the Dagra of Candidate of Clerical Sciences)

SC: Enighter Lateria' to 44, Catorar 1,50, Roscow

· USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Enur - Knimiya, No :, 187, 1989

Author: Petrov, A. D., Mirenov, V. F., and Glukhovtsev, V. G.

Institution: Academy of Sciences USSR

Title: Wurtz-type Synthesis of Organosisicon Compounds with a Double Bond in

the  $\alpha$ -Position

Original

Periodical: Izv. AN SESR, Section on Chemical Sciences, 1956, No 4, 461-466

Abstract: The condensation of trialkylchlorosilanes with derivatives of

CH2 = CHC1 (I) with the aid of Na and in the presence of ethyl acetate gives high yields of organosilicone compounds with  $\alpha$  -positioned louble bonds. The condensation of SiCli (II) with I under such conditions yields (CH<sub>2</sub> = CH)<sub>1,</sub>Si (III), while (CH<sub>3</sub>)<sub>2</sub>C = CHBr (IV) and CH<sub>3</sub>CHBr (V) condensed with ClSi(CH<sub>3</sub>)<sub>2</sub>C<sub>2</sub>H<sub>5</sub> (VI) yield (CH<sub>3</sub>)<sub>2</sub>C = CHSi(CH<sub>3</sub>)<sub>2</sub>C<sub>2</sub>H<sub>5</sub> (VII) and CH<sub>3</sub>CH = CHSi(CH<sub>3</sub>)<sub>2</sub>C<sub>2</sub>H<sub>5</sub> (VIII). Reaction of (CH<sub>3</sub>)<sub>3</sub>SiCH = CHCh (IX) and (CH<sub>3</sub>)<sub>3</sub>SiCH = CH<sub>2</sub> (X) with ClSiR<sub>3</sub> (XI), where R = CH<sub>3</sub>, yields L(CH<sub>3</sub>)<sub>3</sub>SiCH = L(XIII) and L(CH<sub>3</sub>)<sub>3</sub>SiCH = CH<sub>2</sub> (XIII). Condensation of

Card 1/5

USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhan - Khimaya, No. , 1997, Mar

Abstract: CHqCCl = CHCH2CH (XIV) with XI in the presence of pyridine yields  $\text{CH}_3^{\circ}\text{CCl} = \text{CH}_2^{\circ}\text{OSiR}_1$  (XV) which, when reacted with XI in the presence of Ma, forms RoSiC(CH,) = CHCH ONIR; (XVI); XVI can be hydrolyzed to RaSiC(CHa) = CHCH OH (XVII). The latter reacts with CHg = CHCH (XVIII) to give R sic(CH3) • CHCH2-CH2CH3CHCN (XEX). The CH2 = CHgroup is III does not show activition with MR. The characteristic frequency of the = th. in the spectra of III and (tolk) gaith = the is 1,272, 1,404, 1,004, and 3,084 cm-1. To 140 gms of dispersed Na in 300 ml of other and 250 gms of II are added 3-5 ml othyl acetate; a stream of I is passed through the boiling etner for mours. The yield of III is one, up 130.20/740.1 cm, no 1.40.25, dec 0.7399. The chlorination of 2 kg of (2H5SiCl3 gives a convergion of 33% to a mixture of ClCH2CH2SiCl3 (XX), bp 151.70/751 mm, nfC 1.4652, dfC 1.4239, and CH3CHC1SiCl3 (XXI), bp 136.50/740.5 mm, nfC 1.4555, dfC 1.3912, in the ratio 1:1.5. The chlorination of XXI at 1250 gives an act convergion to a 1.0 6 mixture of CM CCl 34Cl and an 69% conversion to a 1:0.6 mixture of CH<sub>2</sub>CCl<sub>2</sub>SiCl<sub>2</sub> and CH<sub>2</sub>CClCHClSiCl<sub>3</sub> (XXII) (bp  $\pm 0.00/745$  mm,  $m_{\rm c}^{2O}$  1.5 $^{45}$ 50,  $d_{\rm c}^{4C}$  1.5 $\pm 61$ ). The chlorination of XX at 1740 results in a 93% conversion to a not easily separable mixture of XXII and CHCl2CH2SiCl, (XXIII); the

Card 2/5

USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zgar - Khamaya, Wo a, 1977, 987

Abstract: mixture poils at lib-look. From (Dr.3i)gCHCH3 it is possible to obtain (dr.3i)gcHCH3 it is possible to obtain (dr.3i)gcHCH3 it is vielts of 446, bp 2240/741 mm, ng lib-yG2, tain (dr.3i)gcHCH3 it is split off. (dr.3i)gcHCH3 it is formed, up dr. 1.5920; when HCI is split off. (dr.3i)gcHCH3 in the presence of 190-2000/44, mm, ng lib-yG3. When HCI is evolved in the presence of dimethyl aniline from a mixture of XXII and XXIII, a cob conversion to Clarify a result of the conversion of the and  $\text{CH}_3\text{MgI}$  (45 cms Mg. 350 gms  $\text{CH}_3\text{I}$ , in 0.5 1 ether, refluxing for 5 hours) X is prepared in yields of objet by 10h0; by the same method, Clip = CClbr(CgH<sub>5</sub>); is prepared from XV and CgH<sub>2</sub>M<sub>2</sub>Br, yield method, Clip = CClbr(CgH<sub>5</sub>); is prepared from XV and CgH<sub>2</sub>M<sub>2</sub>Br, yield 76.5%, bp lo2-1 30/139 mm, np 1.4595, dp 0.9166. Reaction of XXIV with CH<sub>2</sub>M<sub>3</sub>BI gives IX, yield 776, bp 116.60/741 mm, np 1.4350, d<sup>2</sup>C with CH<sub>2</sub>M<sub>3</sub>BI gives IX, yield 776, bp 116.60/741 mm, np 1.4350, d<sup>2</sup>C 0.8924. A dispersion of 9 ams Ha in 0.5 1 ether is prayared; 20 gms MI (R = CH3), 1.2 ml X, and 1.2 ml of ethyl acetate are added. After the start of the reaction an additional 23.5 gms of X are added and the mixture refluxed 2.5 hours. The yield of III is 46.5%, by 151.60/ 756.5 mm,  $n_D^{20}$  1.454,  $d_h^{20}$  0.115. From 10 gms Ha,  $C^{1}$  6ms X1 (k = 756.5 mm,  $n_D^{20}$  1.454,  $d_h^{20}$  0.111; prepared in yields of 705, by 1450/140 mm,

Card 3/5

USSR/Organic Chemistry - Synthetic Ongunic Chemistry, R-S

Abst Journal: Referat Chur - Khimiya, ho 1, 1971, 9-

Abstract: np0 1.45b, op 0.775 . eros 1; gas Ha, 41 pms VI, ore mialiliter ethyl acetate, and 47 mms IV, VII is prepared in yields of 51.1%, op 139.50/743 mm, np0 1.4361, ap0 0.76by; V and VI give VIII, yield 32.5%, by 15.50/7 - mb, up 15.00, pt 15.00/7 - mb, up 15.00/7 - CH<sub>3</sub>) is obtained, yield 60 %, by the left, all legal,  $d_1^{\rm ev}$  c. And. To a mixture of 191 gas VI (a = 1 He), as an algorithm, and 150 ml CoH6, here and A.V are alone and the mixture alone to spans for higher. The yield of XV (B = 0 He) is \$0.65, by 7.0% mm,  $n_1^{\rm ev}$  1.453 df 0.154. To graph to the relation of the graph of the state of the maximum at the initiation of the restriction with a state and of the restriction with of the reaction with othyl nostate. After heating for 3 hours XVI (R = CH<sub>3</sub>) is obtained, yield  $\approx 6$ , bp  $105^{\circ}/159$  nm,  $n_{\rm p}^{\circ}$ 0.4369, dp<sup>0</sup>0.8369. XV (R = C<sub>2</sub>H<sub>5</sub>) and XI (R = C<sub>2</sub>H<sub>5</sub>) give XVI (R = C<sub>2</sub>H<sub>5</sub>), yield 52%, bp  $101^{\circ}/2$  nm,  $n_{\rm p}^{\circ}$ 0.1460c,  $n_{\rm p}^{\circ}$ 0.7716. When 16 gas of 16 (R = CH<sub>3</sub>) is 20 mL alcohol are refluxed with 30 mL water and 1 drops HRI for 8 hours. XVII (R = C<sub>2</sub>H<sub>5</sub>) to constant which is  $n_{\rm p}^{\circ}$ 0.7716. for 8 hours, KVII (R = CH<sub>3</sub>) is obtained, yield 60%, bp  $-7^{\circ}/2$  mm,  $n_{\rm D}^{20}$  1,4590,  $d_{\rm R}^{20}$  C.86%. The hydrolysis of EVI (R =  $C_{\rm SH_3}$ ) yield 50%, by  $-10^{\circ}/2$  mm,  $d_{\rm R}^{20}$  .40%by,  $d_{\rm R}^{20}$  0.7676.

Card 4/5

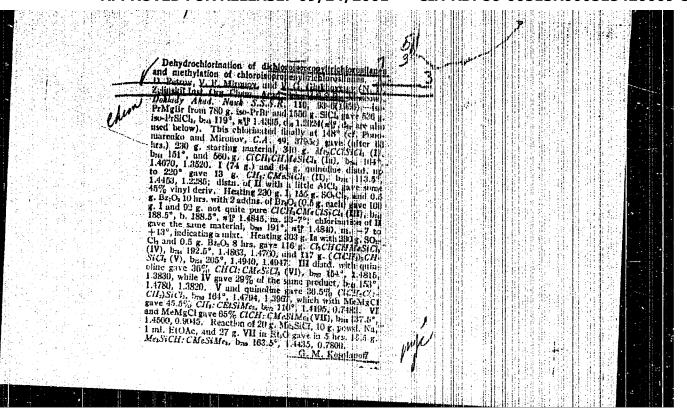
USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Char - Khimiya, No 1, 1957, 543

Abstract: Prom XVII (R = CH3) and XVIII, XIX (R = CH3) can be prepared in the presence of CH50Ha, yield co5, bp 65°/6 can, n5° 1.461c, df° 0.9153.

XVII (R = CH4) and XVIII give XIX (R = C2H3), yield -54, op 1130/
2 mm, n5° 1.4732, df° 0.0019.

Card 5/5



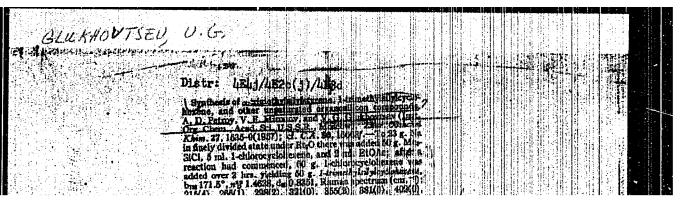
PETROV, A.D.; MIRONOV, V.F.; GLUKHOVTSEV, V.Q.; YEGOROV, Yu.P.

Synthesis and properties of some of the bis-(trimethylsili1)
propylenes. Izv. AN SSSR. Otd. khim. nauk no.9:1091-1100 3 '57.

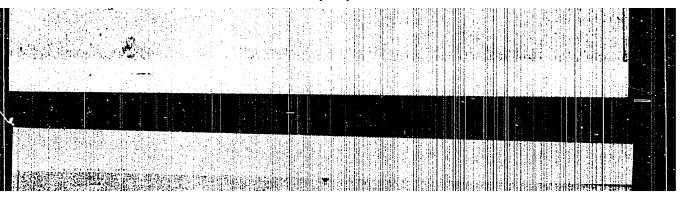
(MIRA 10:12)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

(Propene)



"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515420009-5



KORSHAK, V.V.; POLYAKOVA, A.M.; SAKHAROVA, A.A.; PETROV, A.D.;
MIROHOV, V.F.; GLUKHOVTSEV, V.G.; MIKISHIN, G.I.

Polymerization of unsaturated silicon organic compounds under pressure. Part 4: Mono- and disilanes. Zhur. ob. khim. 27 no.9: 2445-2449 S '57. (MIRA 11:3)

1. Institut elementoorganicheskikh soyedineniy i Institut organicheskoy khimii AN SSSR. (Silane) (Polymerization)

AUTHORS:

Meshcheryakov, A. P., Glakhovtsev, V.G. 62-59-6-25/07

TITLE:

The Synthesis of 1-Cyclopropy1-2-Cyclohexyleyelopropene

(Sintex 1-triklograpil-2-triklogensiltriklograp na)

PERIODICAL:

Investign Alcelerii nach SSSR, Stdelenige iht innerhibt nach, 1950, Mr 6,  $1_{\rm F},~7_{\rm H}0$  - 733 (USSR)

ADSTRACT:

In the present paper the without describe a method of synthetination which they worked out for 1-c, elspropy1-2-cyclohety1cyclopropage. Besides, the sythors tried to obtain 1-cyclopropyl--2-heryleyelepro, ane from " emantovey "aldehyde (?) and met. 1cyclograpylketone under the size conditions. Instead of an a-octenylcyclopropyl betone, tetradeceme-6-on-3 was, however, obtained. A new method of obtaining p-oblarine-2-pentanene from acetopropylaleohol and hydrochloric acid was worked out. The condensation of methylogologropylk, tone under the action of catalysts (alsoholie KOH,  $c_2^{}H_5^{}$  OHa,  $\mathrm{Ba(OH)}_2^{}$ ,  $\mathrm{Ba(OH)}_2^{}$ ,  $\mathrm{Ha}$  ,  $\mathrm{HaOH}$  .

MOH) was investibated. 2,4,6-triegelogrowyl-2,4 spoxyhexanta-6 was obtained. There are 7 references, 1 of which is Soviet.

Card 1/2

The Synthesis of 1-CyclePropyl-2-CycleheaylegelePropine 307/62-8-6-6-7

ASSOCIATION: Institut organicheskey khimii in. N.D.Zelinskogo Akademii nauk

SSSR (Institute of Gryanic Che istry ideni M.D. Calinchiy, AS USGR)

SUBMITTED: January 21, 1956

> 1. Propanes--Cynthesis 2. Ketones--Condensation 3. Alcohol: --Chemical reactions 4. Hydrochloric acits Chemical reactions

5. Catalysts--Performance

Card 2/2

CIA-RDP86-00513R000515420009-5" **APPROVED FOR RELEASE: 09/24/2001** 

5 (3) AUTHORS: Meshcheryakov, A. P., Glukhovtsev, Va. 3, 507/62-59-8-28/42

TITLE:

Preparative Method for the Synthesis of Methylcyclopropylketone

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk: 1959, Nr 8, pp 1490-1492 (USSR)

ABSTRACT:

First of all a survey of the development of the preparative method for the above mentioned compound is given and the following Soviet scientists are cited: Idz'kovskaya and Vagner (Ref 11), Dem'yanov and Pinegin (Ref 12), Romanov (Ref 15). Slobodin and Shokhor (Ref 16), Zelinskiy and Den'gin (Ref 18). Slobodin and Shokhor (Ref 16), Zelinskiy and Den'gin (Ref 18), initial product for the ensuing synthesis of methylcyclopropylminitial process the method used up to now could be improved so as to permit a yield of 76% instead of 64%. Methylcyclopropylketone was obtained from acetylchloride and caustic potash with a yield of 95% compared to the maximum yield of 76% which has so far been obtained. A description of the syntheses and the physical data of the materials obtained are given in the experimental part. There are 27 references, 11 of which are Soviet.

Card 1/2

Preparative Method for the Synthesis of Methylcyclopropylketone

507/62-59-8-28/42

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk

SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy,

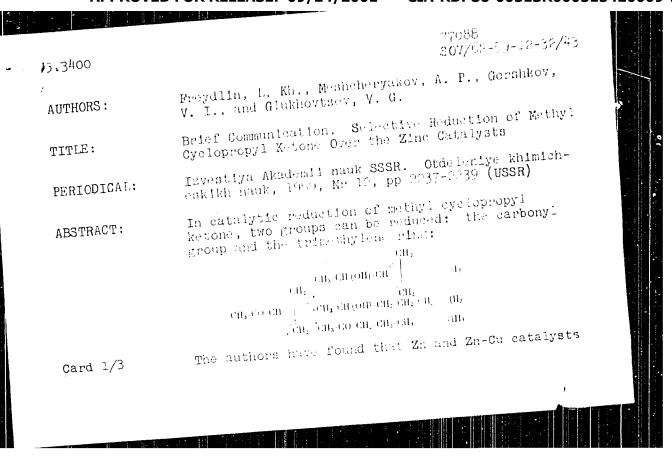
Academy of Sciences, USSR)

SUBMITTED:

February 9, 1959

Card 2/2

CIA-RDP86-00513R000515420009-5" APPROVED FOR RELEASE: 09/24/2001



Brief Communication. Selective Reduction of Methyl Cyclopropyl Ketone Over the Zinc

77088 \$07/62-59-12-32/43

Catalysts

(in the temperature interval 80-160° and 130 atm pressure) cause selective reduction of the carbonyl group, according to path (I) of the above equation, while Cu catalysts first cause (at 80°) hydrogenation of the trimethylene ming (path III). Pentanol is formed above 125°. This behavior of methyl syclopropyl betone during catalytic reduction is similar to the reduction of C., —unsaturated ketones (and aldehydes). There are 2 figures; 2 tables; and 10 references. 7 Soviet, 3 U.S. The U.S. references are: V. A. Slabey, P. H. Wise, J. Am. Chem. Soc., 71, 3252 (1949); R. V. Volkenburgh, K. W. Greenlee, J. M. Derfer, C. E. Boord, J. Am. Chem. Soc., 71, 3595 (1949); W. F. Bruce, G. Mueller, J. Seifter, J. L. Stabo, U. S. Fat. 2494084, Chem. Abstr., 45, 177 (1951).

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Card 2/3

Prief Communication. Selective Reduction of 77068
Methyl Cyclopropyl Ketone Over the Zinc SOV/62-59-12-32/43

khimit imen! N. D. Z. linskogo Akademii nauk SSSR)

SUBMITTED: May 4, 1959

Card 3/3

Viryl ethers of methyl- and dimethylevelopropyleartholm. Lzv.
AM Sound, whim. mank no.11:3062-2049 H '66. (B.RA I):11)

1. Institut organicheskay khimi in.M.D.-elinskogo AM SSSA (Bthors)

MELICHERYAKOV, A.P.; PATROVA, L.V.; GLUHECUTSEV, V.C.

Synthesis of di-, tri-, and tetracubstituted cyclopropane hydrocarbons by the Kilhner reaction. Tav. M. 2838. Ctd. khim. nauk no. 1:114-119 Ja '61. (MTA 14:2)

1. Insitut organichaskov khimii im. N.D. Zelinskogo AN SSSR. (Cyclopropane)

23591 15 8102 5/062/61/000/005/008/009 2209 B118/B220 AUTHORS:

Shostakovskiy, M. F., Gracheva, Ye. P., Meshcheryakov, A. P.,

TITLE: Polymerization of the vinyl ether of methyl cyclopropyl

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh

TEXT: In Ref. 1 (B. A. Zakharov et al., Dokl. ANSSSR, 122, no. 5, 814 (1958)), it has been stated that the double bond of the vinyl ethers has an increased nucleophilic character which manifests itself in various addition reactions, transformations, and especially in the polymerization reaction. For the study of the conditions of polymerization of the compounds CH<sub>2</sub> = CHOR (I), the vinyl ether of methyl cyclopropyl carbinol is

According to the rule of Markovnikov, the cyclopropyl group of this ether,

Polymerization of the...

23591 \$/062/61/000/005/008/009 B118/B220

as possible carrier of the propenyl group, is able to add various polar compounds. Moreover, this ether may be of interest as test substance for the synthesis of different polymers in the polymerization and copolymerization reactions. The present paper describes the polymerization of the vinyl ether of methyl cyclopropyl carbinol in the presence of the initiators FeCl, and azonitrile isobutyric acid under optimum conditions for

the polymerization of the vinyl alkyl ethers. It has been found that compound (II) shows higher reactivity during polymerization in the presence of a 5% solution of iron perchloride (in dioxane) than vinyl alkyl ethers (I) under the same conditions. First of all, this is evident from the fact that the polymerization of the ether (II) begins at O°C and the highest yield in polymer is obtained at a temperature of -17 to -20°C whereas other such diverging temperatures of polymerization is the different stability of the ozonium complexes of these compounds (I, II):

(III)  $CH_2 = CH - OR$   $CH_2 = CH - O - CH - CH$   $CH_3$   $CH_2$   $CH_2 = CH - O - CH - CH$  (IV)

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23591 \$/062/61/000/005/008/009

Polymerization of the...

Evidently, complex (IV) is of lower stability; its decomposition is effected at a low temperature resulting also in the formation of a polymer at lower temperature. The use of azonitrile isobutyric acid as initiator instead of FeCl, did not give any results. There are 3 Soviet-bloc references.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii

nauk SSSR (Institute of Organic Chemistry im. N. D. Zelinskiy,

Academy of Sciences USSR)

SUBMITTED: October 12, 1960

Card 3/3

MESPCHERYAFOV, A.F.; GLLEBOYTSEV, V.G.; LEMIN, N.H.

1-Dyclopropyl-2-4-furylcyclopropane and its transformations.

Inv.AB SSEA.Btd.khim.nauk no.10:1901-1903 0 '41. (MIRA 14:10)

1. Institut organicheskoy khimii im. B.D.Zelinskogo AN SSER.

(Cyclopropane)

MESHCHERYAFOV, A.F.; OLUKHOVTSEV, V.G.

Preparation of 1-cyclopropyl-2-(butanone-1'-o1-4')cyclopropane.

Izv. AN SSSR Otd.khim.nauk no.12:2248-2250 v '61. (XIR. 14:11)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

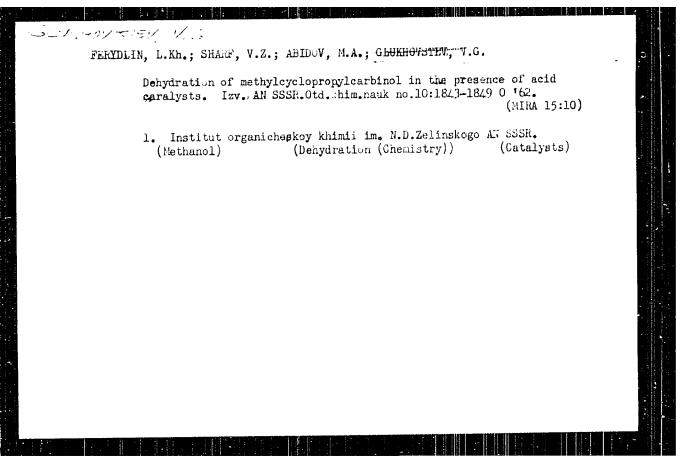
(Cyclopropane)

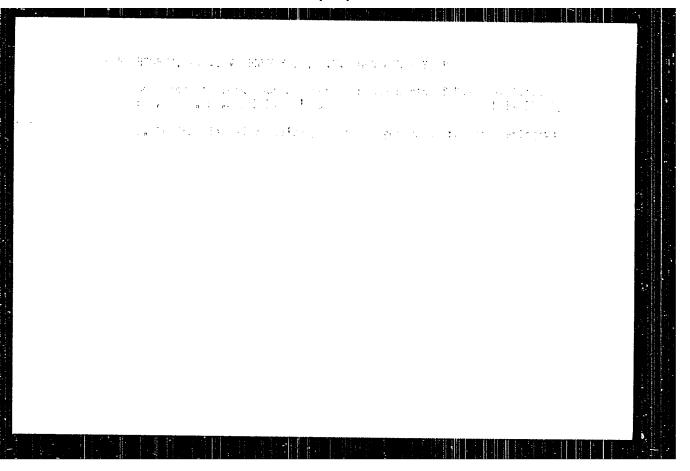
MESHCHERYAECV, A.P.: GLUBHOVISHV, V.G.

Synthesis of 1,3-diayologropyl-k-hateme-1-one. izv. AN 155m 2t...
Reim.com/ no.1:176-178 % %2. (M.64 1:1)

1. Institut organicheskoy khimii im. U.D.Zelinskogo AU SSSX.

(Ketone) (Cyclopropane)





8/062/63/000/003/009/018 B101/B186

AUTHORS:

Shuykin, N. I., Petrov, A. D., Glukhovtsev, Y. G, and

Karakhanov, R. A.

TITLE:

Transformations of the 1-methyl-2-a-furyl cyclopropane and

1-cyclopropyl-2-a-furyl cyclopropane on catalytic hydrogena-

tion

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh

nauk, no. 3, 1963, 521 - 524

TEXT: Hydrogenation of the 1-methyl-2-a-furyl cyclopropane gave rise to 2-n-butyl and that of the 1-cyclopropyl-2-α-furyl cyclopropane with a palladium-carbon catalyst (15 % Pd) at 300°C produced 2-n-hexyltetrahydro-furan, with a yield of about 95 %. The hydrogenation of the furan rings proceeds in these bicyclic or tricyclic systems just as easily as with the simplest alkyl derivatives of the furan. The cyclopropane ring is broken open by the addition of hydrogen. The ring cleavage takes place between the tertiary C atoms. Synthesis of the 1-methyl-2-a-furyl-cyclopropane, b.p.  $143.5^{\circ}$ C/759 mm Hg,  $n_D^{20}$  =  $d_A^{20} = 0.9499$ , by distillation of

Card 1/2

#### CIA-RDP86-00513R000515420009-5 "APPROVED FOR RELEASE: 09/24/2001

Transformations of the ...

S/062/63/000/003/009/018 B101/B186

the 3-methyl-5-a-furyl pyrazolin in the presence of dry KOH is suggested. The yield is 90 %.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organio Chemistry imeni N. D.

Zelinskiy of the Academy of Bulences USSR)

SUBMITTED:

June 4, 1962

Card 2/2